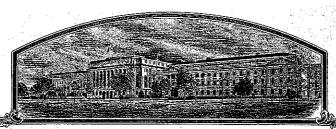
No.



200000111

THE UNITED STATES OF AMERICA

<u>to all to whom these presents shall come:</u>

Pioneer Hi-Bred International, Inc.

MICCOLS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED. WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HERS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE GOHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR ORTING IT OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT OF BYTHE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'92B36'

In Testimony Mecrest, I have hereunto set my hand and caused the seal of the Hunt Institute Hericity Arotection Office to be affixed at the City of Washington, D.C. this eighth day of May, in the year of our Lord two thousand one.

alank fort

In Menemon Yary of Agriculture

PALEODIICE LOCALLY Include form number and date on	a all raproductions		3	FORM APPROVE	ED ONED NO DESK DOEE	
REFRODUCE LOCALLY. Include form number and date on all reproductions. U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFICE APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE			FORM APPROVED - OMB NO. 0581-0055 The following statements are made in accordance with the Privacy Act of			
			1974 (5 U.S.C. 552a). Application is required in order to certificate is to be issued (7 U.S.C			
(Instructions and information collection burden stat			until certificate is issued (7 U.S.C			
1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)			2. EXPERIMENTAL NUMBER	3. VARIETY NA	AME	
Pioneer Hi-Bred International, Inc.				92B36		
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, at	nd Country)		5. TELEPHONE (include area code)	FOR O	FFICIAL USE ONLY	
7300 NW 62nd Ave			515-270-3582	PVPO NUMBE 200	0 0 0 1 1 1	
P.O. Box 1004			6. FAX (include area code)	F DATE		
Johnston, Iowa 50131-1004			515-253-2288		22 hci	
7. GENUS AND SPECIES NAME	8. FAMILY NAME	(Botanica	0	G IV/	ON DEXAMINATION FEE:	
Glycine max L.	Leg	juminosae	•	[s A	450°	
CROP KIND NAME (Common name) Soybean	:			DATE	La lag	
•				E CERTIFICA	TIÓN FEE: 1	
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORG	GANIZATION (corporation,	partnership, ass	ociation, etc.) (Common name)	11: 3	ω^{ω}	
11. IF INCORPORATED, GIVE STATE OF INCORPORATION		<u>.</u>	12. DATE OF INCORPORATION	E DATE		
Iowa			May 6, 1926	ll 4	12/1	
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY,	TO SERVE IN THIS APPL	LICATION AN	RECEIVE ALL PAPERS	14. TELEPHON	E (indiude area code)	
John Grass Dr. Daria Schmidty	_ 9470"	Bromert (Co	• • •	515-270-	3582	
7300 NW 62nd Ave. 3 0 P.O. Box 1004		NW 62nd A 3ox 1000	ve.	15. FAX (in	clude area code)	
Johnston, Iowa 50131-1004 Johnston, Io			0131-1000	515-253-	2288	
16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (a. Exhibit A. Origin and Breeding History of the Variety	Follow instructions on r	reverse)	·			
b. 🗹 Exhibit B. Statement of Distinctness						
c. Fig. Exhibit C. Objective Description of the Variety d. Fig. Exhibit D. Additional Description of the Variety						
e. W Exhibit E. Statement of the Basis of the Applicant's Owners	ship					
f. Voucher Sample (2,600 viable untreated seeds or, for tuber	propagated varieties ve	erification tha	t tissue culture will be deposited and n	naintained in a publ	ic repository)	
g. 🗹 Filing and Examination Fee (\$2450), made payable to "Treas		•	PVPO)			
17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SC YES If "yes," answer items 18 and 19 below)	OLD BY VARIETY NAME NO		CLASS OF CERTIFIED SEED (See Section to item (20)	on 83(a) of the Plan	t Variety Protection Act)?	
18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LII	<u> </u>	·	"YES" TO ITEM 18, WHICH CLASSES	OF PRODUCTION B	EYOND BREEDER SEED?	
GENERATIONS? YES NO		i	FOUNDATION REGISTE	ERED CER	TIFIED	
20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BE YES (If "yes," give names of countries and dates)	EN RELEASED, USED, O	OFFERED FO	R SALE, OR MARKETED IN THE U.S. O	R OTHER COUNTR	ES?	
21. The applicant(s) declare that a viable sample of basic seed of the var applicable, or for a tuber propagated variety a tissue culture will be o	riety will be furnished wi	ith application	n and will be replenished upon request	in accordance with	such regulations as may be	
The undersioned applicant(s) is/are) the owner(s) of this sexually rec	produced or tuber propa	ugated plant v	ariety, and believe(s) that the variety is		orm, and stable as required	
Section 41, and is entitled to protection under the provisions of Sect	ion 42 of the Plant Varie	ety Protection	Act.		.,,	
Applicant(s) is(are) informed that false representation herein can jeo	parcize protection and i		GOF APPLICANT (Owner(s))			
A. Jan have ##		SIGNATURE	OF AFFEIGANT (Owner(s))			
Name (Please print or type)		Name (Ple	ase print or type)			
D'. John Grace III CAPACITY OR TITLE DE	ATE:	015.5:=			In a more	
	2/16/99	CAPACITY	R HTLE -		DATE	
SD-470 (04-95) (Previous editions are to be destroyed)		1	(See reverse for instructions and	d information col	lection burden statement,	

Exhibit A. Origin and Breeding History of the Variety

Soybean Variety 92B36

Variety 92B36 evolved from a 1993 cross of Stine 2250/{Stine 2250/[9392/(9392/40-3-2)]}.

It is an F5-derived variety which was advanced to the F5 generation by modified single seed descent. The F6 progeny row of 92B36 was grown in summer of 1996. Subsequently, 92B36 has undergone three years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of resistance to labeled rates of Roundup Branded herbicides and yield potential, variety 92B36 was assigned a commercial number.

The purification block was grown during the summer of 1998 and 51 sublines were bulked for increase. Ninety acres of 92B36 (breeders seed) were grown in the winter of 1998/9. 2850 acres of parent seedstock (foundation seed equivalent) were grown in the summer of 1999 and 129,300 bushels harvested.

Exhibit B. Statement of Distinctness

Soybean Variety 92B36

Variety 92B36 is most similar to 92B51. Both varieties are similar in maturity, height, standability, protein content, oil content, seed size, have tawny pubescence and are resistant to labeled rates of Roundup Branded herbicides. However, 92B51 has white flowers whereas 92B36 has purple flowers.

Variety 92B36 is also similar to variety 92B21. Both varieties are similar in maturity and height, have tawny pubescence, brown hila, tan pods and are resistant to labeled rates of Roundup Branded herbicides. However, 92B21 has white flowers whereas 92B36 has purple flowers.

92B36 is similar to AP2102RR, AG2101, AG2201, AG2301 and CX285RR. These varieties are similar in maturity and are resistant to labeled rates of Roundup Branded herbicides. However, 92B36 has brown hila whereas AP2102RR, AG2101, AG2201, AG2301 and CX285RR have black hila.

92B36 is similar to AP2002RR, AP2802RR, AG2401, AG2501, AG2701 and S28-V8. These varieties are similar in maturity and are resistant to labeled rates of Roundup Branded herbicides. However, 92B36 has tawny pubescence whereas AP2002RR, AP2802RR, AG2401, AG2501, AG2701 and S28-V8 have gray pubescence.

92B36 is similar to CX208RR, CX222RR and S20-B9. These varieties are similar in maturity and are resistant to labeled rates of Roundup Branded herbicides. However, 92B36 is susceptible to *Phytophthora megasperma* Race 1 whereas CX208RR, CX222RR and S20-B9 are resistant.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SEED DIVISION - PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

EXHIBIT C (Soybean)

OBJECTIVE DESCRIPTION OF VARIETY

SOYBEAN (Glyc	ine max L.
· · · · · · · · · · · · · · · · · · ·	ESIGNATION VARIETY NAME
Pioneer Hi-Bred International, Inc.	92B36
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code)	FOR OFFICIAL USE ONLY
7300 N.W. 62nd Ave., P.O. Box 1004	PVPO NUMBER ZUUUU 1 1 1
Johnston, IA 50131-1004	
Choose the appropriate response which characterizes the variety in the features describe the number of boxes provided, place a zero on the first box when number is 9 or less (e.g. adequate soybean variety description. Other characters should be described when inform	. ் ர ் ஏ). Starred characters 🛨 are considered fundamental to an
1. SEED SHAPE:	
2 L W	Т
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 3 = Elongate (L/T ratio > 1.2 ; T/W = < 1.2)	2 = Spherical Flattened (L/W ratio > 1.2; L/T ratio = < 1.2) 4 = Elongate Flattened (L/T ratio > 1.2; T/W > 1.2)
★ 2. SEED COAT COLOR: (Mature Seed)	
1 1 = Yellow 2 = Green 3 = Brown 4 = Black	5 = Other (Specify)
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)	
1 1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny	('Nebsoy'; 'Gasoy 17')
★ 4. SEED SIZE: (Mature Seed)	
1 6 Grams per 100 seeds	
★ 5. HILUM COLOR: (Mature Seed)	
3 1 = Buff 2 = Yellow 3 = Brown 4 = Gray 5 = Imperfect B	ack 6 = Black 7 = Other (Specify)
★ 6. COTYLEDON COLOR: (Mature Seed)	
1 = Yellow 2 = Green	
★ 7. SEED PROTEIN PEROXIDASE ACTIVITY:	·
2 1 = Low 2 = High	
★ 8. SEED PROTEIN ELECTROPHORETIC BAND:	
1 = Type A (SP1 a) 2 = Type B (SP1 b)	
★9. HYPOCOTYL COLOR:	
1 = Green only ('Evans'; 'Davis') 2 = Gr	een with bronze band below cotyledons ('Woodworth'; 'Tracy')
3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71')	
4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'Co	oker Hampton 266A')
★ 10. LEAFLET SHAPE:	
3 1 = Lanceolate 2 = Oval 3 = Ovate 4 =	Other (Specify)
FORM LMGS-470-57 (6-83) (Edition of 2-82 is obsolete.)	Page 1 of 4

		Variety Name 92B36
	11. LEAFLET SIZE:	Tantoty Hamo 3111
	1 = Small ('Amsoy 71'; 'A5312') 2 = Medium ('Corsoy 79'; 'Gasoy 17') 3 = Large ('Crawford'; 'Tracy')	
	12. LEAF COLOR:	
	1 = Light Green ('Weber'; 'York') 2 = Medium Green ('Corsoy 79'; 'Braxton') 3 = Dark Green ('Gnome'; 'Tracy')	
*	13. FLOWER COLOR:	
	2 1 = White 2 = Purple 3 = White with purple throat	
*		
	1 1 = Tan 2 = Brown 3 = Black	
*	15. PLANT PUBESCENCE COLOR:	
	2 1 = Gray 2 = Brown (Tawny)	
	16. PLANT TYPES:	
	2 1 = Slender ('Essex'; 'Amsoy 71') 2 = Intermediate ('Amcor'; 'Braxton') 3 = Bushy ('Gnome'; 'Govan')	
*	17. PLANT HABIT:	
	3 1 = Determinate ('Gnome'; 'Braxton') 2 = Semi-Determinate ('Will')	
	3 = Indeterminate ('Nebsoy'; 'Improved Pelican')	
*	18. MATURITY GROUP:	
	$\begin{bmatrix} 0 & 5 \end{bmatrix}$ $1 = 000$ $2 = 00$ $3 = 0$ $4 = I$ $5 = II$ $6 = III$ $7 = IV$	8 = V
٠	9 = VI $10 = VII$ $11 = VIII$ $12 = IX$ $13 = X$	
*	19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)	the second secon
	BACTERIAL DISEASES:	
	★ 0 Bacterial Pustule (Xanthomonas phaseoli var. sojensis)	
	* 1 Bacterial Blight (Pseudomonas glycinea)	
	★ 0 Wildfire (Pseudomonas tabaci)	
	FUNGAL DISEASES:	
	★ 1 Brown Spot (Septoria glycines)	
	Frogeye Leaf Spot (Cercospora sojina)	
	★ 0 Race 1 0 Race 2 0 Race 3 0 Race 4 0 Race 5	Other (Specify)
	Target Spot (Corynespora cassiicola)	
	Downy Mildew (Peronospora trifoliorum var. manshurica)	
	Powdery Mildew (Microsphaera diffusa)	

0

Brown Stem Rot (Cephalosporium gregatum)

Stem Canker (Diaporthe phaseolorum var. caulivora)

		· · · · · · · · · · · · · · · · · · ·		t alledy i tallite				
19.		DISEASES REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) (Continued)						
4	r	FUNGAL DISEASES: (Continued)						
*		Pod and Stem Blight (Diaporthe phaseolorum var; sojae)						
	0	Purple Seed Stain (Cercospora kikuchii)						
	1	Rhizoctonia Root Rot (Rhizoctonia solani)						
	•	Phytophthora Rot (Phytophthora megasperma var. sojae)						
*	1	Race 1 0 Race	e 2 0 Race 3 0 Race 4	0 Race 5 0 Race 6	0 Race 7			
	0	Race 8 0 Race	9 Other (Specify)					
	VI	RAL DISEASES:	outer (eposity)					
	1	Bud Blight (Tobacco I	Ringspot Virus)					
	\vdash	Yellow Mosaic (Bean	·					
*		Cowpea Mosaic (Cow	pea Chlorotic Virus)					
	1	Pod Mottle (Bean Pod	Mottle Virus)					
*	1	Seed Mottle (Soybean	Mosaic Virus)					
	NE	MATODE DISEASES:						
		Soybean Cyst Nemator	de (Heterodera glycines)	_				
*	0	Race 1 0 Race	2 1 Race 3 0 Race 4	Other (Specify)				
	0	Lance Nematode (Hop	Iolaimus Colombus)					
*	O Southern Root Knot Nematode (Meloidogyne incognita)							
*	0	Northern Root Knot Nematode (Meloidogyne Hapla)						
	0	Peanut Root Knot Nematode (Meloidogyne arenaria)						
		OTHER DISEASE NOT ON FORM (Specify) white mold						
20.	PHYS	YSIOLOGICAL RESPONSES: (ENTER 0 = Not tested, 1 = Susceptible, 2 = Resistant)						
*	0	Iron Chlorosis on Calcareois Soil						
		Other (Specify)						
24								
21.	INSECT REACTION: (ENTER 0 = Not tested, 1 = Susceptible, 2 = Resistant)							
		Mexican Bean Beetle (Epilachna Varivestis)						
	0	Potato Leaf Hopper (En	npoasca fabae)					
		Other (Specify)						
22. 1	22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.							
	СНА	RACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY			
	Plant :	Shape	Stine variety 2250	Seed Coat Luster	9233			
	Leaf S	Shape	Stine variety 2250	Seed Size	92B51			
	Leaf C	Color	Stine variety 2250	Seed shape	92B51			
	Leaf S	ize	Stine variety 2250	Seedling Pigmentation				
		· · ·						

Variety Name 92B36

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	DAYS LODGII	PLANT LODGING	GING PLANT	LEAFLET SIZE		SEED CONTENT		SEED SIZE	NO.
		SCORE		CM Width	CM Length	% Protein	% Oil	G/100 SEED	SEEDS POD
Submitted 92B36	126	2.4	86			36	19	16	3
Name of Similar Variety 92B51	126	1.6	87			35	19	16	3

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop. Sci., 13: 420-421
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1:1-19

Exhibit D. Additional Description of the Variety

Soybean Variety 92B36

In Exhibit C we have identified variety 92B36 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety 92B36 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 92B36 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

Variety 92B36 is an early Group II variety. If Group II varieties are divided into tenths, the relative maturity of 92B36 is 2.3.

PLEASE NOTE:

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

- 1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- 2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- 3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.